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Abstract

A hydraulic braking system having an electronically controlled full power brake valve is disclosed. The hydraulic braking system supplies a braking output for a vehicle having at least one brake. The hydraulic braking system includes a primary valve assembly that is configured to receive a manually controlled input that varies the braking output of the braking system. The primary valve assembly includes a first spool valve configured to vary the braking output according to the manually controlled input. The hydraulic braking system also includes a secondary valve assembly integral with the primary valve assembly. The secondary valve assembly is configured to receive input signals from a programmable electronic controller and includes a second spool valve configured to operate with the primary valve assembly. The secondary valve assembly also includes an actuator for engaging and actuating the second spool valve according to the input signals received from the programmable electronic controller such that the second spool valve modulates the braking output produced by the primary valve assembly.